



STIC Search Report

EIC 2800

STIC Database Tracking Number: 151833

TO: Peguy JeanPierre

Location: JEF-5A89

Art Unit : 2819

Wednesday, April 27, 2005

Case Serial Number: 09/844740

From: Darcy Bates

Location: EIC 2800

JEF- 4B68

Phone: 571-272-2540

darcy.bates@uspto.gov

Search Notes

Re: 09/844,740 US 5,898,394

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

**Thanks,
Darcy Bates**

Bates, Darcy

From: Unknown@Unknown.com
Sent: Monday, April 25, 2005 11:49 AM
To: STIC-EIC2800
Subject: Generic form response

ResponseHeader=Commercial Database Search Request

AccessDB#= _____

LogNumber= _____

Searcher= _____

SearcherPhone= _____

SearcherBranch= _____

MyDate=Mon Apr 25 11:49:05 EDT 2005

submitto=STIC-EIC2800@uspto.gov

Name=peguy jeanpierre

Empno=72658

Phone=21803

Artunit=2819

Office=Jeff 5A89

Serialnum=09/844740

PatClass=341/58

Earliest=4/26/2001

Format1=paper

Searchtopic=Litigation search

Comments=

send=SEND

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Patent Search - Number: 5,898,394



No cases containing this patent number were found.

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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents [i](#)
Terms: patno=5898394 ([Edit Search](#))

900436 (08) 5898394 April 27, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5898394

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[Link to Claims Section](#)

April 27, 1999

Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus

REISSUE: Reissue Application filed Apr. 26, 2001 (O.G. Jun. 19,, (O.G. June 19, 2001)

INVENTOR: Kobayashi, Yoshiharu - Katano, Japan (JP); Mutoh, Akira - Sakai, Japan (JP); Tanaka, Shin-ichi - Tuzuki-gun, Japan (JP); Akahira, Nobuo - Kyoto, Japan (JP)

APPL-NO: 900436 (08)

FILED-DATE: July 25, 1997

GRANTED-DATE: April 27, 1999

PRIORITY: July 31, 1996 - 8201615, Japan (JP); September 11, 1996 - 8240304, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Kadoma, Japan (JP), 03

ASSIGNEE-AFTER-ISSUE: October 15, 1997 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA 571 JAPAN, Reel and Frame Number: 08759/0109

LEGAL-REP: Renner, Otto, Boisselle & Sklar, PL.

PUB-TYPE: April 27, 1999 - Utility Patent having no previously published pre-grant publication (A)

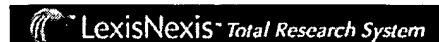
PUB-COUNTRY: United States (US)

US-MAIN-CL: 341#58

US-ADDL-CL: 341#59, 360#39

CL: 341, 360

SEARCH-FLD: 341#58, 341#59, 341#94, 341#95, 360#48, 360#39, 360#32, 369#443.8

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* Enter Search Terms

 Terms and Connectors Natural Language

patno=5898394

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* Search Connectors

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Syntax Definition

and	and
or	or
w/N	within N words
not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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4/27/05

US 5,898,394

09/844740

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Query/Command : us5898394/pn

** SS 7: Results 1

Search statement 8

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5898394 A 19990427 [US5898394]
TI - (A) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
PA0 - Matsushita Electric Industrial Company, Ltd., Kadoma [JP]
IN - (A) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
AP - US90043697 19970725 [1997US-0900436]
PR - JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
IC - (A) H03M-007/00
EC - G11B-020/10
G11B-020/10A
G11B-020/14A2B
H03M-005/14B
PCL - ORIGINAL (O) : 341058000; CROSS-REFERENCE (X) : 341059000
360039000
DT - Corresponding document
CT - US4603413; US4731797; US5122912; US5151699; US5451943; US5661707
STG - (A) United States patent
AB - A code conversion method and apparatus is provided for scrambling and modulating data. The method and apparatus includes scrambling an input main data unit based on any of plural types of pseudo-random number sequences, and modulating the scrambled main data unit based on any of plural types of modulation data. An output main data unit is produced from the modulated main data unit, and a calculated value representing a difference between a number of 0 bits and a number of 1 bits included in the output main data unit is obtained. Any of the modulation data is then selected dependent upon the calculated value. The method and apparatus further includes determining whether or not a variation of the calculated value has exceeded a predetermined threshold, newly selecting another pseudo-random number sequence used for the step of scrambling if it is determined that the variation of the calculated value has exceeded the predetermined threshold value, and re-scrambling the input main data unit based on the newly selected pseudo-random number sequence.

1 / 1 LGST - ©EPO
PN - US5898394 A 19990427 [US5898394]
AP - US90043697 19970725 [1997US-0900436]
ACT - 19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZ;
EFFECTIVE DATE: 19970918

4/27/05

US 5,898,394

09/844740

19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KOBAYASHI, YOSHIHARU; EFFECTIVE DATE: 19970918

19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MUTOH, AKIRA; EFFECTIVE DATE: 19970918

19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: TANAKA, SHIN-ICHI; EFFECTIVE DATE: 19970918

19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: AKAHIRA, NOBUO; EFFECTIVE DATE: 19970918

20010619 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20010426

UP - 2003-22

1 / 1 CRXX - ©CLAIMS/RRX
AN - 3141515
PN - 5,898,394 A 19990427 [US5898394]
PA - Matsushita Electric Industrial Co Ltd JP
PT - E (Electrical)
ACT - 20010426 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010619
REISSUE REQUEST NUMBER: 09/844740
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2819

Reissue Patent Number:

UP - 2001-25
UACT- 2001-06-19

Search statement 8

Query/Command : fam us5898394/pn

1 Patent Groups
** SS 8: Results 10

Search statement 9

Query/Command : famstate nonstop

1 / 10 PLUSPAT - ©QUESTEL-ORBIT

STIC EIC 2800

Darcy Bates

272-2540

PN - CN1380652 A 20021120 [CN1380652]
STG - (A) Unexamined application
TI - (A) Scramble data method, information recording method and code recording and reproducing equipment
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
IN - (A) AKIRA TAKEU (JP); RYOJI CHAYASHI (JP); SHINICHI TANAKA (JP)
IC - (A) G11B-020/10 G11B-020/24
AP - CN02106166 20020405 [2002CN-0106166]
PR - JP20161596 19960731 [1996JP-0201615]
 JP24030496 19960911 [1996JP-0240304]
UP - 2002-50

2 / 10 *PLUSPAT - ©QUESTEL-ORBIT*
PN - CN1183609 A 19980603 [CN1183609]
STG - (A) Unexamined application
TI - (A) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
IN - (A) KOBAYASHI YOSHIHARU (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
IC - (A) G11B-007/00 H03M-007/00
PN2 - CN1109333 C 20030521 [CN1109333C]
STG2- (C) Granted patent
TI2 - (C) Code conversion method and apparatus
PA2 - (C) MATSUSHITA ELECTRIC IND CO LTD (JP)
IN2 - (C) KOBAYASHI YOSHIHARU (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
IC2 - (C) G11B-007/00 H03M-007/00
AP - CN97118660 19970731 [1997CN-0118660]
PR - JP20161596 19960731 [1996JP-0201615]
 JP24030496 19960911 [1996JP-0240304]

3 / 10 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - EP0822555 A2 19980204 [EP-822555]
STG - (A2) Pub. Of applic. Without search report
TI - (A2) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
OTI - (A2) Kodeumsetzungsverfahren und -vorrichtung,
 Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und
 Kodewiedergabevorrichtung
 (A2) Méthode et appareil de conversion de code, support
 d'enregistrement de code, appareil d'enregistrement de code et
 appareil de restitution de code
PA - (A2) MATSUSHITA ELECTRIC IND CO LTD (JP)
IN - (A2) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
IC - (A2) G11B-020/14 H03M-005/14
PN2 - EP0822555 A3 20020403 [EP-822555]
STG2- (A3) Publi. Of search report
TI2 - (A3) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
OTI2- (A3) Kodeumsetzungsverfahren und -vorrichtung,
 Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und
 Kodewiedergabevorrichtung
 (A3) Méthode et appareil de conversion de code, support
 d'enregistrement de code, appareil d'enregistrement de code et
 appareil de restitution de code
PA2 - (A3) MATSUSHITA ELECTRIC IND CO LTD (JP)
IN2 - (A3) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA

4/27/05

US 5,898,394

09/844740

(JP); TANAKA SHIN-ICHI (JP)
IC2 - (A3) G11B-020/14 H03M-005/14
LA - ENGLISH (ENG)
AP - EP97113214 19970731 [1997EP-0113214]
PR - JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
EC - G11B-020/10
G11B-020/10A
G11B-020/14A2B
H03M-005/14B
DS - AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
DT - Basic

1 / 1 *LEGALI - ©EPO*
PN - EP0822555 A2 19980204 [EP-822555]EP0822555 A3 20020403 [EP-822555]
AP - EP97113214 19970731 [1997EP-0113214]
ACTE - 19980204 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

19980204 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 19970818

19980204 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB

20020403 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020904 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 20020718

20030102 EP/AKX-A [+]
PAYMENT OF DESIGNATION FEES
DE FR GB
UP - 2003-22

4 / 10 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - EP1335370 A1 20030813 [EP1335370]
STG - (A1) Public. Of applic. With search report
TI - (A1) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
OTI - (A1) Kodeumsetzungsverfahren und -vorrichtung, Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und Kodewiedergabevorrichtung
(A1) Méthode et appareil de conversion de code, support d'enregistrement de code, appareil d'enregistrement de code et appareil de restitution de code
PA - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)
PAO - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Ohaza Kadoma / Kadoma-shi, Osaka 571-8501 (JP)
IN - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
IC - (A1) G11B-020/14 H03M-005/14
LA - ENGLISH (ENG)

4/27/05

US 5,898,394

09/844740

AP - EP03010314 19970731 [2003EP-0010314]
PR - EP97113214 19970731 [1997EP-0113214]
JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
EC - G11B-020/10A
G11B-020/14A2B
H03M-005/14B
DS - DE FR GB
DT - Basic
UP - 2003-33

1 / 1 *LEGALI - ©EPO*
PN - EP1335370 A1 20030813 [EP1335370]
AP - EP03010314 19970731 [2003EP-0010314]
ACTE - 20030813 EP/AC-A
DIVISIONAL APPLICATION (ART. 76) OF:
(EP 0822555 [EP-822555])

20030813 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB

20030813 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20030520

20040506 EP/AKX-A [+]
PAYMENT OF DESIGNATION FEES
DE FR GB

20041103 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 20040921
UP - 2004-45

5 / 10 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - EP1335371 A1 20030813 [EP1335371]
STG - (A1) Public. Of applic. With search report
TI - (A1) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
OTI - (A1) Kodeumsetzungsverfahren und -vorrichtung, Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und Kodewiedergabevorrichtung
(A1) Méthode et appareil de conversion de code, support d'enregistrement de code, appareil d'enregistrement de code et appareil de restitution de code
PA - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)
PAO - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Ohaza Kadoma / Kadoma-shi, Osaka 571-8501 (JP)
IN - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
IC - (A1) G11B-020/14 H03M-005/14
LA - ENGLISH (ENG)
AP - EP03010315 19970731 [2003EP-0010315]
PR - EP97113214 19970731 [1997EP-0113214]
JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
DS - DE FR GB
UP - 2003-33

1 / 1 *LEGALI - ©EPO*
PN - EP1335371 A1 20030813 [EP1335371]
AP - EP03010315 19970731 [2003EP-0010315]
ACTE- 20030813 EP/AC-A
 DIVISIONAL APPLICATION (ART. 76) OF:
 (EP 0822555 [EP-822555])

20030813 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB

20030813 EP/17P-A [+]
 REQUEST FOR EXAMINATION FILED
 EFFECTIVE DATE: 20030520

20040414 EP/17Q-A [+]
 FIRST EXAMINATION REPORT
 EFFECTIVE DATE: 20040302

20040506 EP/AKX-A [+]
 PAYMENT OF DESIGNATION FEES
 DE FR GB

UP - 2004-19

6 / 10 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - EP1335372 A1 20030813 [EP1335372]
STG - (A1) Public. Of applic. With search report
TI - (A1) Code conversion method and apparatus, code recording medium,
 code recording apparatus and code reproducing apparatus
OTI - (A1) Kodeumsetzungsverfahren und -vorrichtung,
 Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und
 Kodewiedergabevorrichtung
 (A1) Méthode et appareil de conversion de code, support
 d'enregistrement de code, appareil d'enregistrement de code et
 appareil de restitution de code
PA - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)
PA0 - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Oaza-Kadoma /
 Kadoma-shi, Osaka 571-8501 (JP)
IN - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA
 (JP); TANAKA SHIN-ICHI (JP)
IC - (A1) G11B-020/14 H03M-005/14
LA - ENGLISH (ENG)
AP - EP03010317 19970731 [2003EP-0010317]
PR - EP97113214 19970731 [1997EP-0113214]
 JP20161596 19960731 [1996JP-0201615]
 JP24030496 19960911 [1996JP-0240304]
DS - DE FR GB
UP - 2003-33

1 / 1 *LEGALI - ©EPO*
PN - EP1335372 A1 20030813 [EP1335372]
AP - EP03010317 19970731 [2003EP-0010317]
ACTE- 20030813 EP/AC-A
 DIVISIONAL APPLICATION (ART. 76) OF:
 (EP 0822555 [EP-822555])

4/27/05

US 5,898,394

09/844740

20030813 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB

20030813 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20030520

20040506 EP/AKX-A [+]
PAYMENT OF DESIGNATION FEES
DE FR GB

20041103 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 20040921

UP - 2004-45

7 / 10 PLUSPAT - ©QUESTEL-ORBIT - image
PN - EP1335373 A1 20030813 [EP1335373]
STG - (A1) Public. Of applic. With search report
TI - (A1) Code conversion method and apparatus, code recording medium,
code recording apparatus and code reproducing apparatus
OTI - (A1) Kodeumsetzungsverfahren und -vorrichtung,
Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und
Kodewiedergabevorrichtung
(A1) Code, appareil d'enregistrement de code et appareil de
restitution de code, méthode et appareil de conversion de code,
support d'enregistrement de code
PA - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)
PAO - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Oaza-Kadoma /
Kadoma-shi, Osaka 571-8501 (JP)
IN - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA
(JP); TANAKA SHIN-ICHI (JP)
IC - (A1) G11B-020/14 H03M-005/14
LA - ENGLISH (ENG)
AP - EP03010321 19970731 [2003EP-0010321]
PR - EP97113214 19970731 [1997EP-0113214]
JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
DS - DE FR GB
UP - 2003-33

1 / 1 LEGALI - ©EPO
PN - EP1335373 A1 20030813 [EP1335373]
AP - EP03010321 19970731 [2003EP-0010321]
ACTE - 20030813 EP/AC-A
DIVISIONAL APPLICATION (ART. 76) OF:
(EP 0822555 [EP-822555])

20030813 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB

20030813 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20030520

20040414 EP/17Q-A [+]
FIRST EXAMINATION REPORT

EFFECTIVE DATE: 20040302

20040506 EP/AKK-A [+]
PAYMENT OF DESIGNATION FEES
DE FR GB
UP - 2004-19

8 / 10 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP10144007 A 19980529 [JP10144007]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) CODE CONVERSION SYSTEM, CODE CONVERTING DEVICE, CODE RECORDING MEDIUM, CODE RECORDER AND CODE REPRODUCING DEVICE
PA - (A) MATSUSHITA ELECTRIC IND CO LTD
PA0 - (A) MATSUSHITA ELECTRIC IND CO LTD
IN - (A) KOBAYASHI RYOJI; TANAKA SHINICHI; MUTO AKIRA; AKAHIRA NOBUO
IC - (A) G11B-020/14 H03M-007/14
AP - JP19762697 19970723 [1997JP-0197626]
PR - JP19762697 19970723 [1997JP-0197626]
JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]

9 / 10 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP2004355803 A 20041216 [JP2004355803]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) CODE CONVERSION SYSTEM, CODE CONVERSION APPARATUS, CODE RECORDING MEDIUM, CODE RECORDING DEVICE, AND CODE REPRODUCING DEVICE
PA - (A) MATSUSHITA ELECTRIC IND CO LTD
IN - (A) AKAHIRA NOBUO; KOBAYASHI RYOJI; MUTO AKIRA; TANAKA SHINICHI
IC - (A) G11B-020/14 H03M-007/14
AP - JP2004210831 20040716 [2004JP-0210831]
PR - JP2004210831 20040716 [2004JP-0210831]
JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
UP - 2005-04

10 / 10 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5898394 A 19990427 [US5898394]
STG - (A) United States patent
TI - (A) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
PA0 - Matsushita Electric Industrial Company, Ltd., Kadoma [JP]
IN - (A) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)
IC - (A) H03M-007/00
AP - US90043697 19970725 [1997US-0900436]
PR - JP20161596 19960731 [1996JP-0201615]
JP24030496 19960911 [1996JP-0240304]
EC - G11B-020/10
G11B-020/10A
G11B-020/14A2B
H03M-005/14B
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PN - US5898394 A 19990427 [US5898394]
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ACTE - 19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZ;
EFFECTIVE DATE: 19970918

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KOBAYASHI, YOSHIHARU; EFFECTIVE DATE: 19970918

19971015 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MUTOH, AKIRA; EFFECTIVE DATE: 19970918

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: TANAKA, SHIN-ICHI; EFFECTIVE DATE: 19970918

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: AKAHIRA, NOBUO; EFFECTIVE DATE: 19970918

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<u>or</u>	or
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<u>not w/N</u>	not within N words
<u>pre/N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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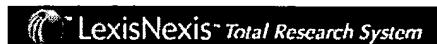
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<u>and not</u>	and not

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